Approved For Release 2000/99/08: CIA-RDP71T00730R000400360006-4

SEUNET

MANURALIDAM

EUNIECT:

Satissized Costs of the Soviet Space Progress

- I. There is no direct information available to the actual expenditures of the USER for its space achievements to date or for the developmental with already accomplished for as yet unidentified future exact programs. Estimates of these expenditures, therefore, the subject to wide ranges of uncertainty and must be regarded as tentative.
- 2. In concept, the estimates of Cowiet mibis expenditures for rescarch, development, test and evaluation (EDIDE) include much if not all of the cost of the Soviet space affect. However, the breakdown of this category of expenditures is not available at this time. Consequently, the expenditures for foviet space progress discussed in this manufacture are preliminary estimates expressed in equivalent to deliges and at present cannot be related to the appropriate ECTAL estimates. According to these preliminary estimates, the cumulative costs of the Soviet space programs through 1963 are equivalent to at least 5 billion dollars and perhaps as much as 10 billion dollars.
- In the absence of direct information, estimates of custa for programs in the flight-test phase are made by valuing each observed Seviet program as if it were conducted in the US. This method entails selecting the most closely corresponding US program, edjusting the actual or estimated US costs for fundamental differences in US and Seviet program philosophies, hardware characteristics, and operational procedures, and finally, distributing the estimated Seviet costs through time for each program in accordance with the general pattern of expenditures in the analogous US program. The resulting estimates necessarily include a range to accordance the difficulty of additions US date to reflect the cost of Seviet activity.
- b. Even greater uncertainties are involved in estimating the east of Seviet programs probably now underway but not yet identified through detection of flight tests. For example, the USER probably has already sade a considerable initial investment in a future effort

to land a min on the acce, even if this effect is not competitive with the US Apolic program. If the Soviet effect is to be competitive, the expenditures to dote could amount to the equivalent of neveral billion dollars. As yet, knewers, the Soviet timetable for a manual lumbs landing is not known. An additional reage, therefore, is included in the cost estimates to account for the uncertainties regarding this and other undetected programs.

- The current estimates of spenal Soviet expenditures for space flight are given in the table. In spite of the use of silitary boustons and facilities for space missions, Soviet outlays for space programs probably totaled in the neighborhood of 2 billion dollars through 1959, or roughly twice total the space expenditures up to that time. Although costly, this investment puth handerms dividends to the USER in the form of a series of spentarolar space accomplishments which created an aura of Soviet technological superiority and solved mank Soviet strategic weakness during this period. The estimated expenditures through 1959 reflect not only the costs of developing and launching the early toutnike and luner prokes, but also the browy developmental costs appearance with the manned spectalisht, planetary probe and ectentific satellits programs which were to appear in the early 1960s.
- 6. An indicated in the table, the range of uncertainty in the estimates for the years through 1961 is relatively surrow, instantly as these estimates have been constructed on the basis of historically observed activity through 1963. Although the level of expenditures shown for the period 1959-1961 remained about constant, securi Soviet outlays protably increased during this period, particularly in 1961, as a result of the development costs for new progress and new system hardware to be flown during the 1964-1965 period. Until these progress result in identifiable activity, however, there is no realistic basis for judging more precisely the level and rate of expenditures already incurred.
- The level of current and furare Soviet space cutlays depends on whether the Soviets are involved in a competitive program to land a man on the moon in this decade, and on whether the Soviets will agree to US offers of cooperation in a joint lunar venture. As yet, there has been no clear-cut resetion from the USER to this ecoperative offer. There are indications, however, that the Soviets intend to continue an aggressive opace flight program in the next few years, involving new missions and new space systems, and there seems little doubt that Soviet expenditures for opace will continue to grow. Additional evidence during the next year or so should provide a clearer indication of Soviet intentions and objectives in space and form a basis for more relined coat extinates.

Approved For Release 2000/09/08: CIA-RDP71T00730R00040036006-4

## EXPENSIVE CUTIFY SPACE DEFENITURE TENDES 1964

	Expenditures* (millions of Gillers)
1957 emi Prior	600 - 900
1958	400 - 600
1959	700 - 1,000
1960	700 - 1,000
1561	700 - 1,100
1962	1,000 - 2,100
1963	1,400 - 3,300
1964	2,000 - 5,000

A The lower limit of the estimates includes some allowance for a mained lumer landing program which is not competitive with the current US schedule; the upper limit reflects an ellowance for a competitive manual lumer landing program.